

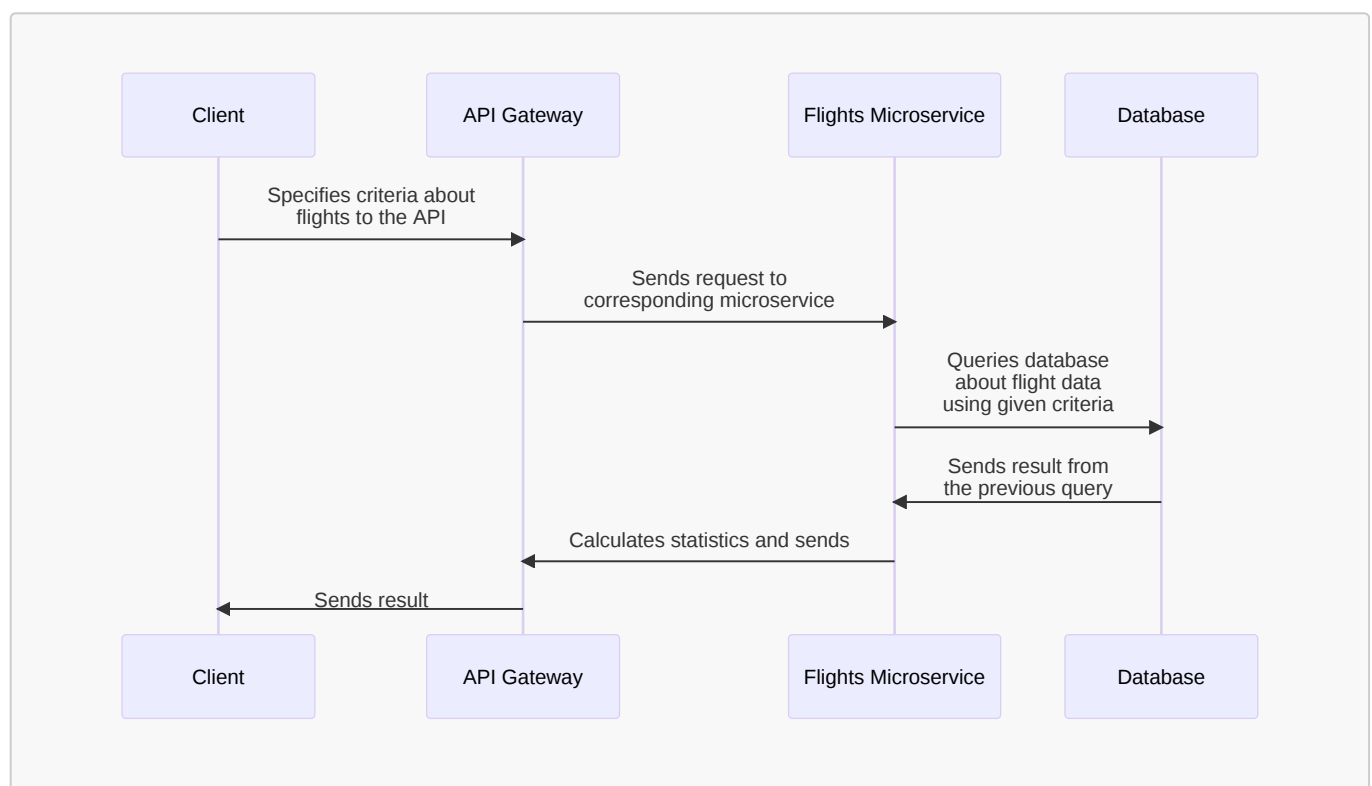
Dataset: Flight Data

What do we want to serve (Value + API):

Use Case 1:

User obtains statistics about flights according to certain criteria.

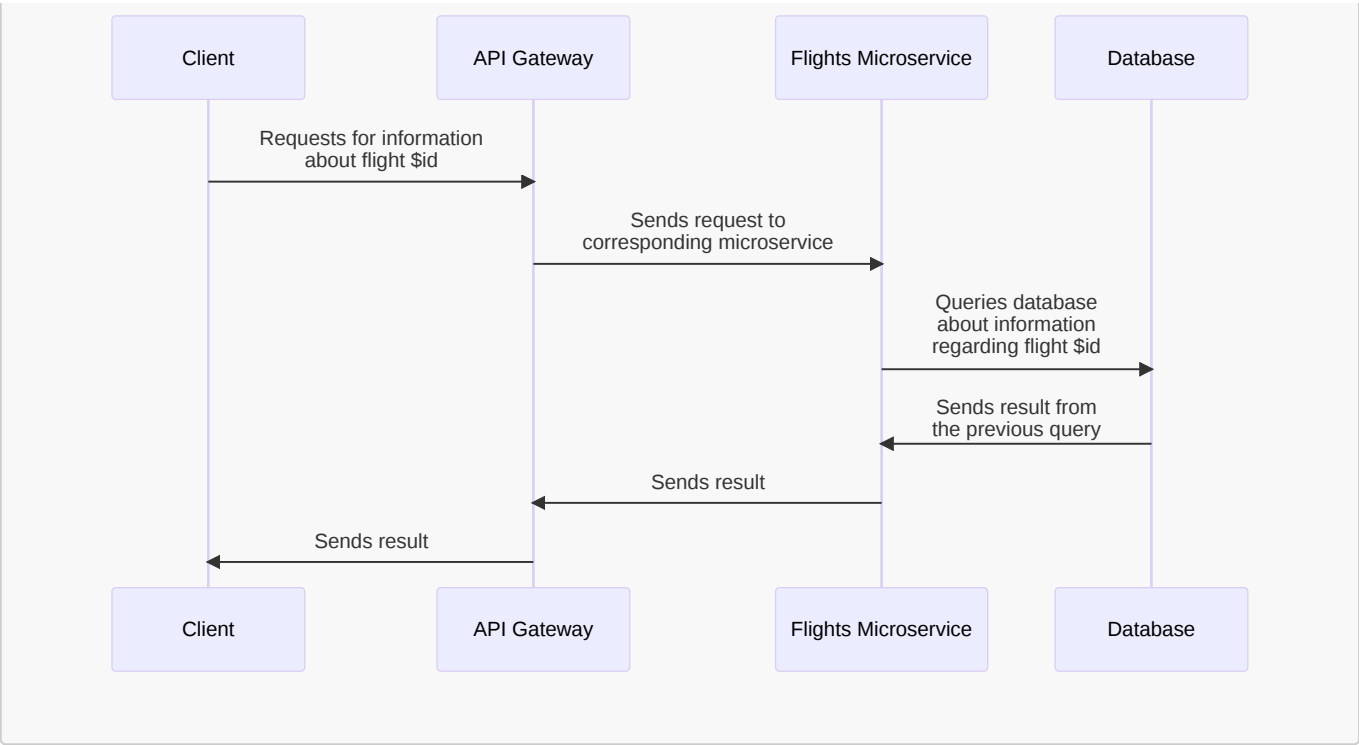
- **Endpoint:** `/flights/statistics`
- **REST Type:** `GET`
- **Use Case Diagram:**



Use Case 2:

User obtains flight information by flight number.

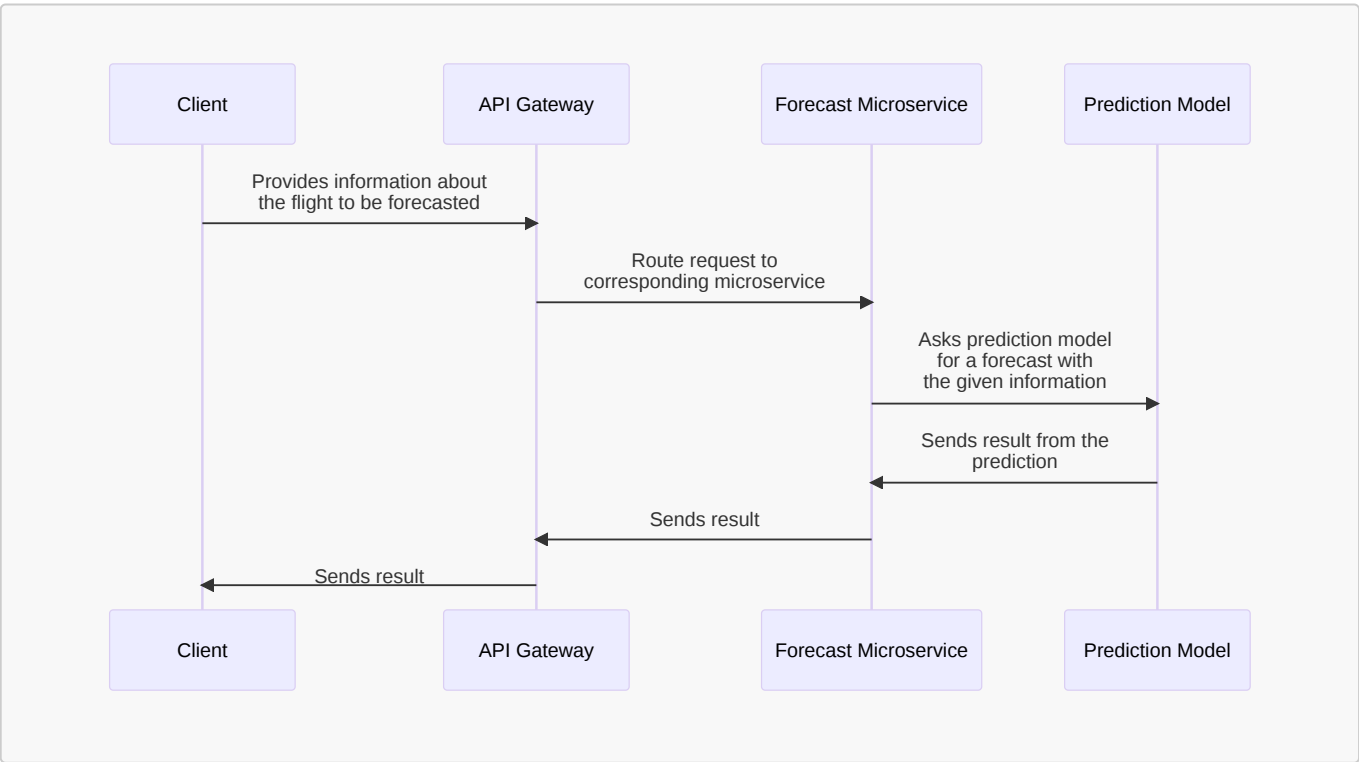
- **Endpoint:** `/flights/{:flight-number}`
- **REST Type:** `GET`
- **Use Case Diagram:**



Use Case 3:

User provides a future flight details and obtains a forecast on the probability of the flight being cancelled, diverted and delayed.

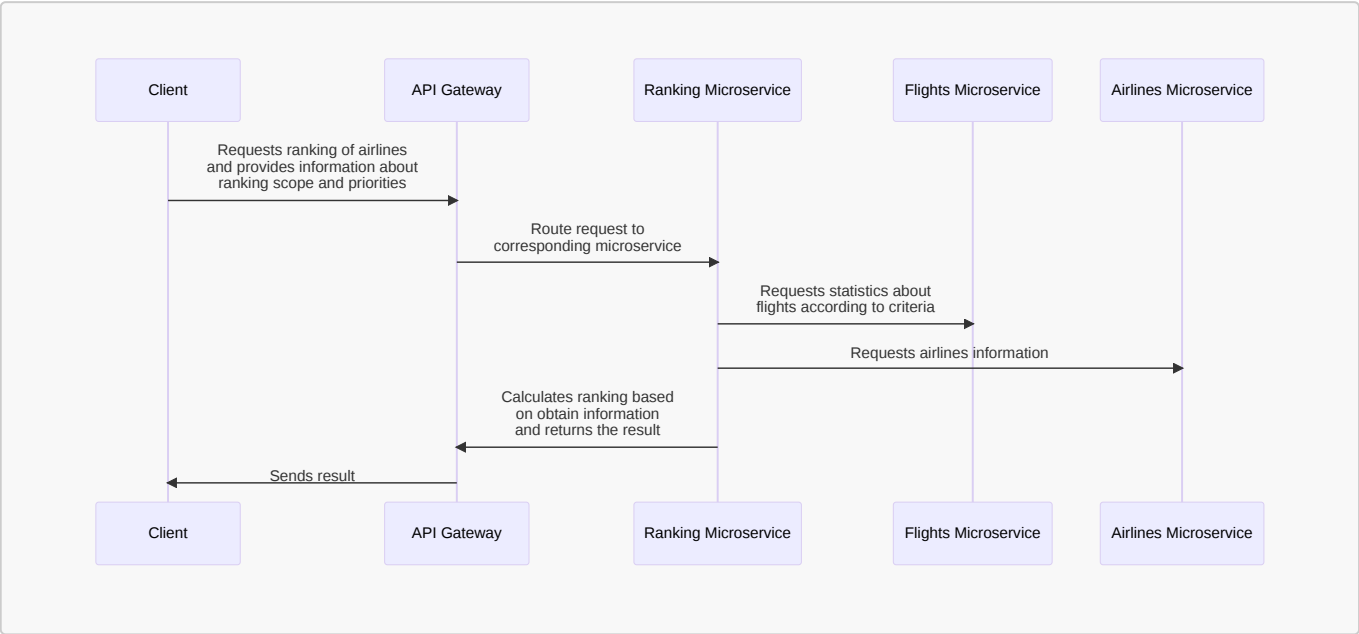
- **Endpoint:** `/flights/forecast`
- **REST Type:** `GET`
- **Use Case Diagram:**



Use Case 4:

User obtains the ranking of airlines and their reliability

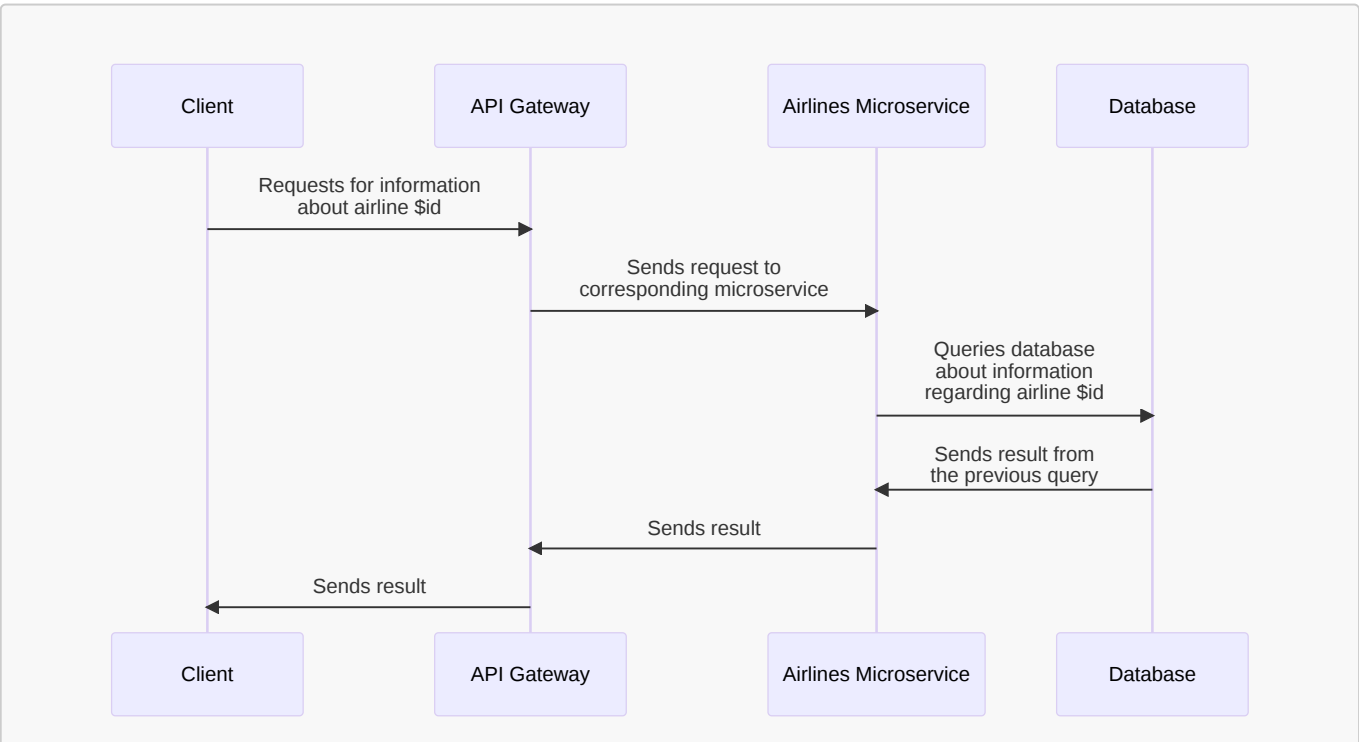
- **Endpoint:** `/airline/rank`
- **REST Type:** `GET`
- **Use Case Diagram:**



Use Case 5:

User obtains airline information by airline code.

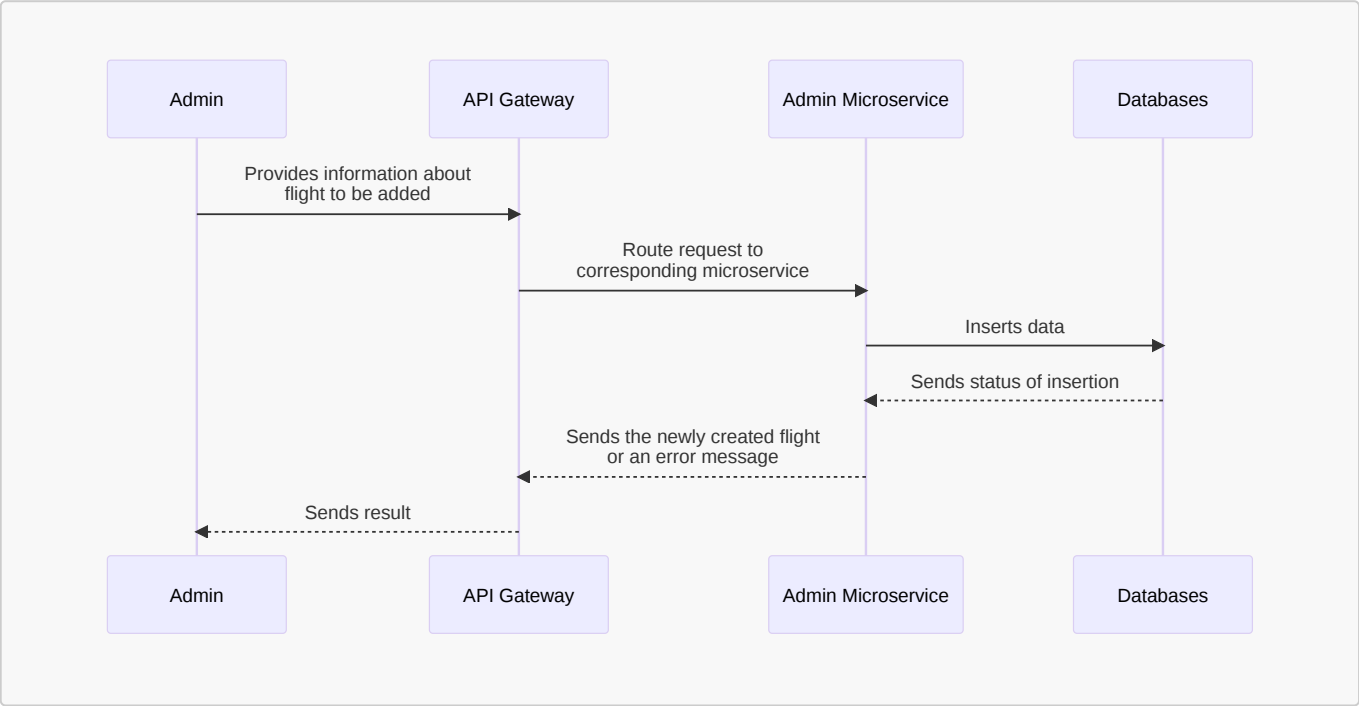
- **Endpoint:** `/airline/{airline-code}`
- **REST Type:** `GET`
- **Use Case Diagram:**



Use Case 6:

Admin adds information about a flight to the database.

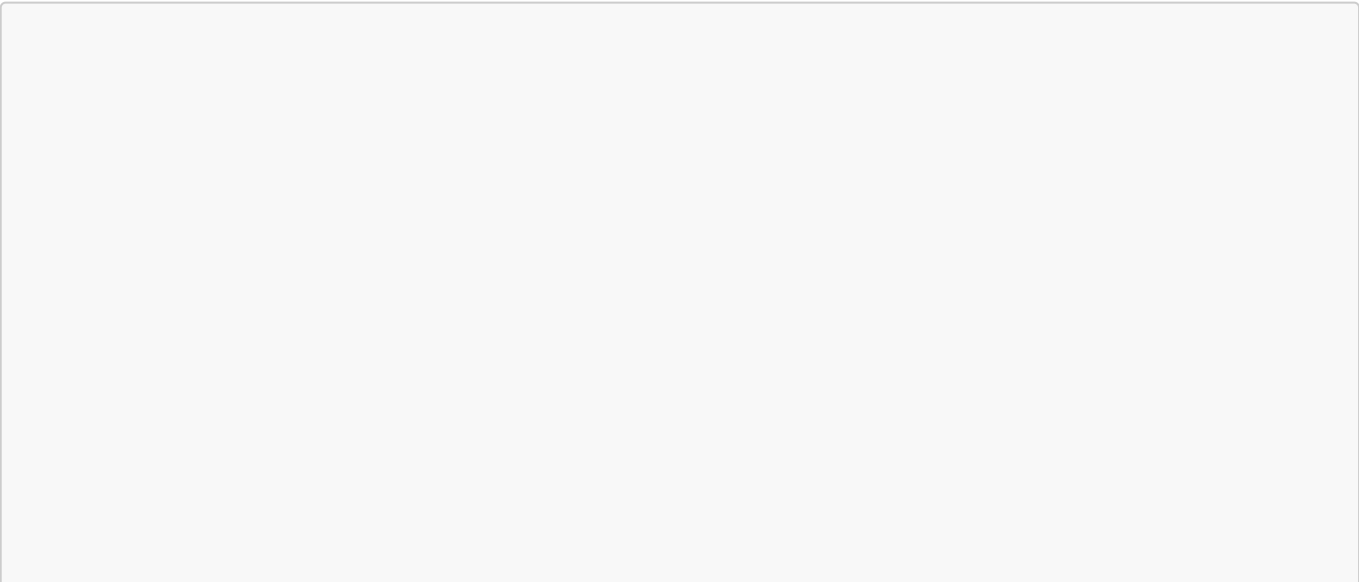
- **Endpoint:** `/admin/flights`
- **REST Type:** `POST`
- **Use Case Diagram:**

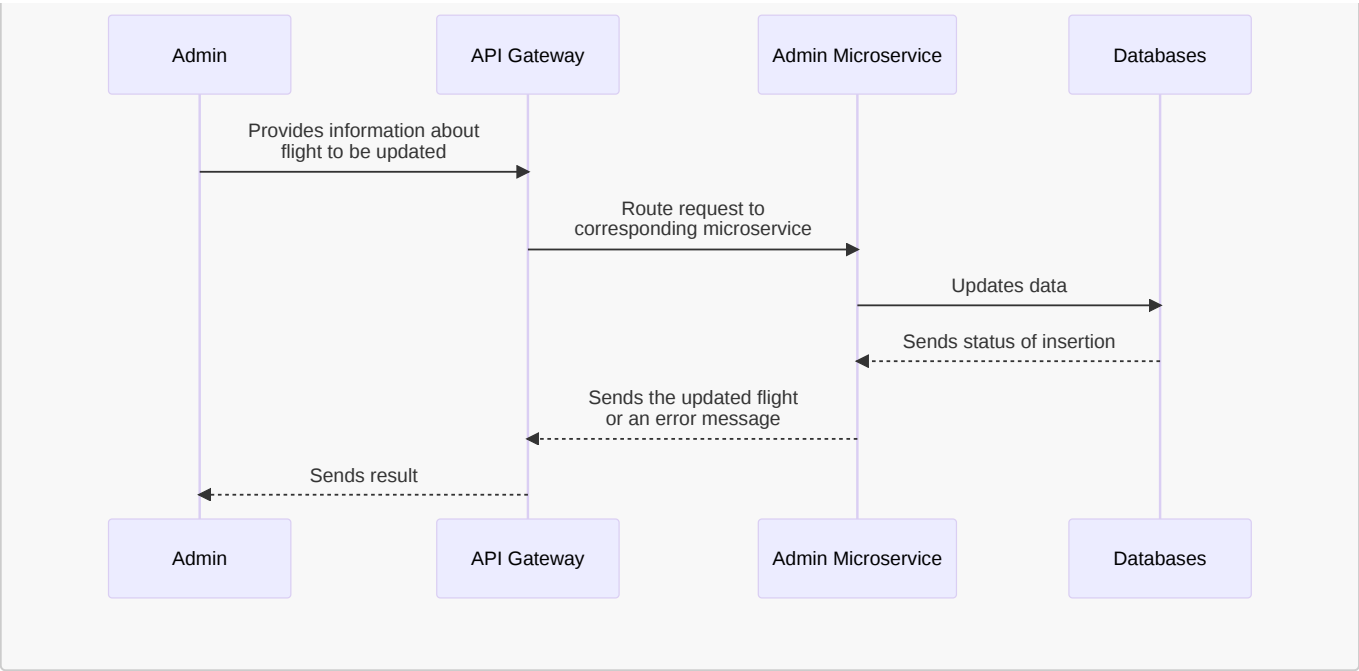


Use Case 7:

Admin updates the information of a flight on the database by flight number.

- **Endpoint:** `/admin/flight/{:flight-number}`
- **Use Case Diagram:**

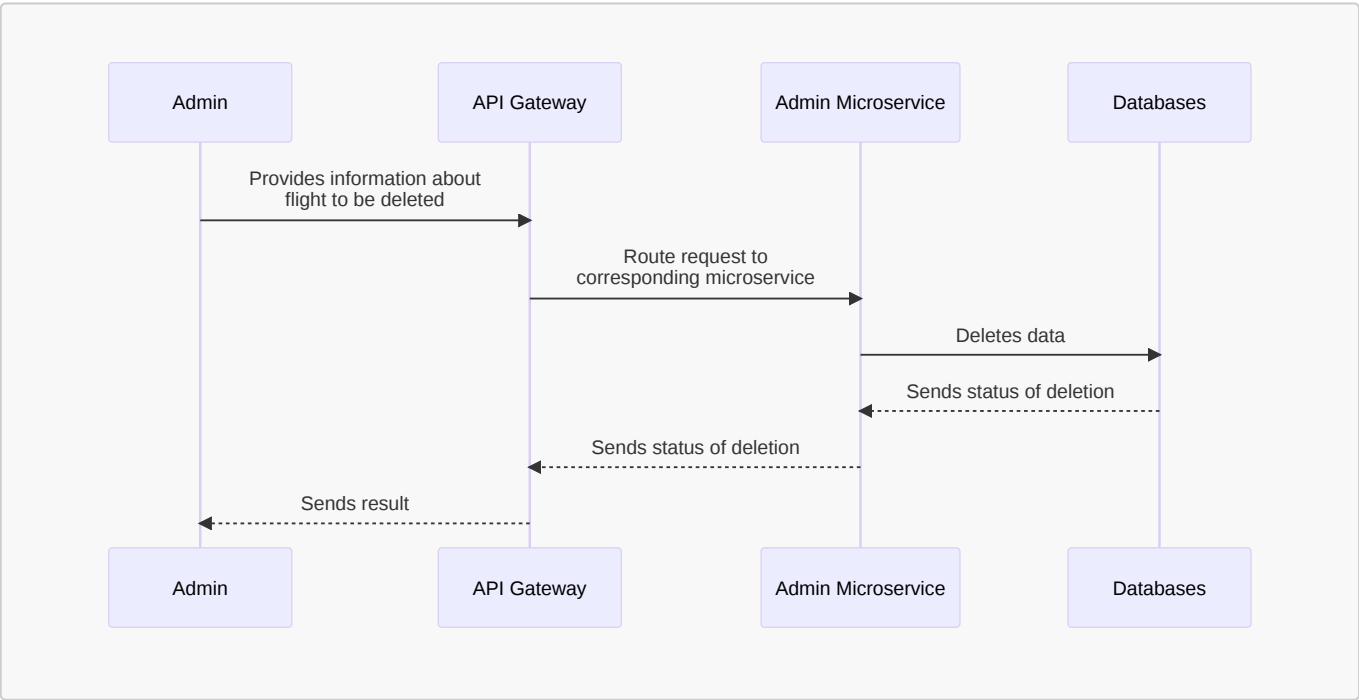




Use Case 8:

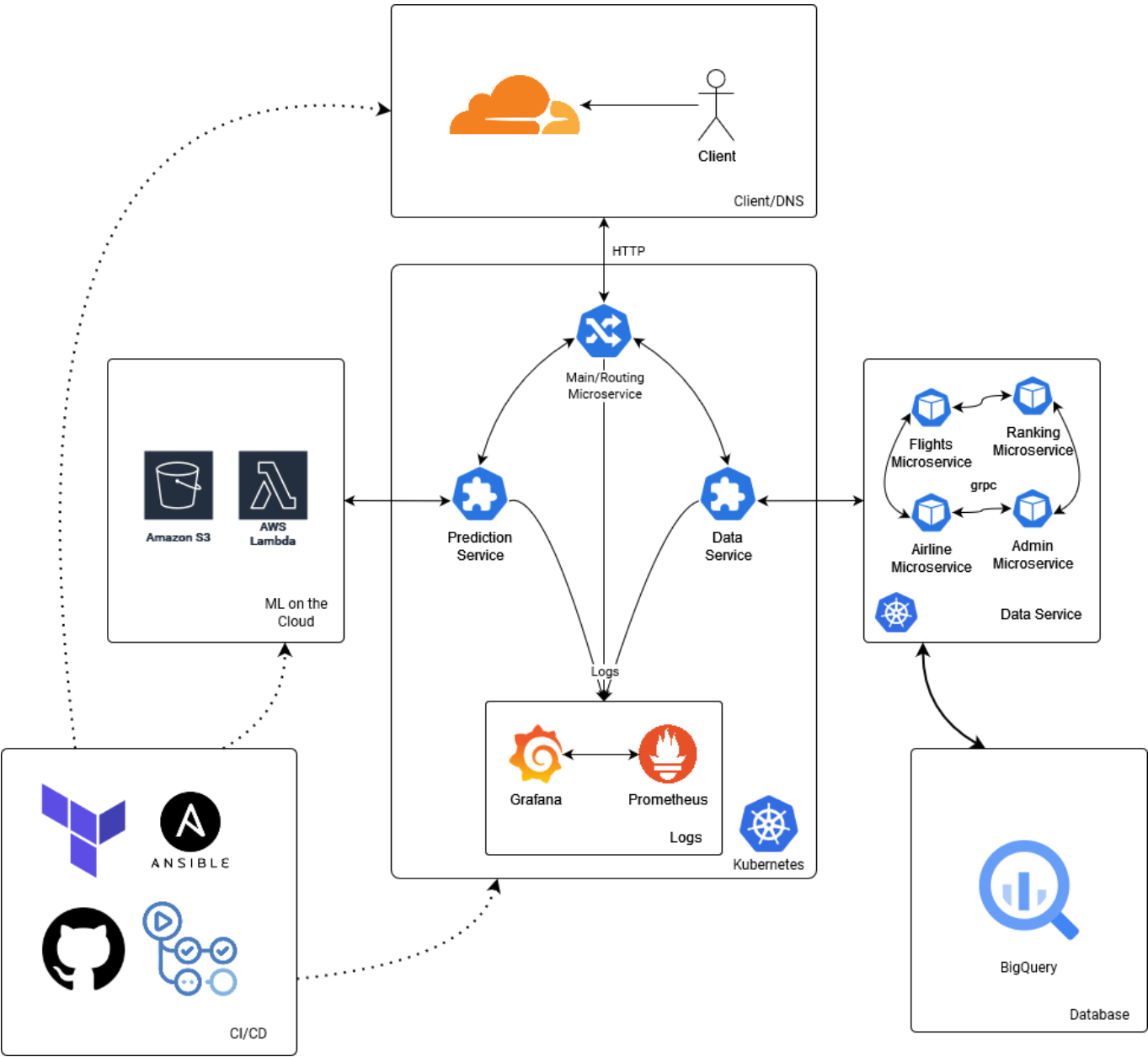
Admin deletes the information of a flight from the database

- **Endpoint:** `/admin/flight/{:flight-number}`
- **REST Type:** `DELETE`
- **Use Case Diagram:**

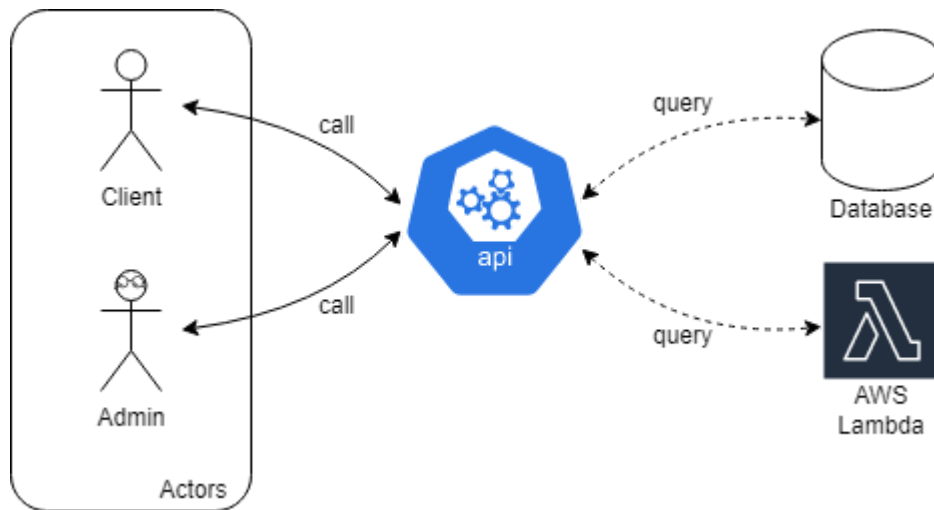


Architecture and Functional Diagrams:

Architecture:



Functional:



Group

Group 16:

- Robert Morosan - 54456
- Inês Fragoso - 54454
- Santiago Benites - 54392
- Diogo Ferreira - 54407
- João Ferreira - 55312